ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. 02AH2		PROJEC			TORING STUDY		NO.				Activity Code: 12345
SAMPLER mike murp							OF	n A	t /		AIR 20020035
STA. NO.	DATE TIME M A STATION LOCATION		CON- TAINERS	An / / / /			TAG NUMBERS				
DO1	1/20	00:00	-0		GHS		1				5-340139 1 to 1
SO1	1/20	00:00	X		GHS		1				5-340138 1 to 1
SO2	1/20	00:00	Х		RVHS		1				5-340140 1 to 1
SO3	1/20	00:00	X		ADDAVILLE		1				5-340141 1 to 1
											GH5# 3012, Psty Avg = 19.65
											GHS# 3013, Poty Avg = 18,75
											0,100.0.10, 101.10
											RVHS , PSTG AVG = 18.85
											Addoville 18.2 125Tg Aug = 18.2
			-								
	-		_							+++	
			_			*	*			++	
Relinquish)	1-	Date / Time	2.211	gnature)	1			Ship To:
Relinquishe	1 0)		Date / Time		gnature)				
											ATTAL
Relinquishe	ed by: 4	Signature	١	+	Date / Time	Received for Labora	tory by:		ate / Tim	ne	ATTN: Airbill Number
Kemiquian	Ju Dy. (oignature	,		Date / IIIIe	Received for Labora (Signature)	/ Jy by.	7	,		UPS#124011990140261096
						Wallem &	houth	2/21	102/12	55A2	Chain of Custody Seal Numbers
							£ 14003	i			

Project No.	Project Na	ame CHUSHIRU I UU2UU35 ARA	MUMTERING.	study 401	1014	1
02AH29	AIR 2	0020035 ARM	UMIDATE:	2/21/2002 00	UE DATE 3/14	1/2002
Sampler mike murphy						
Cooler ID	1	Page 5-1400	34	The state of the s		
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH29DO1	DO1	20/01/2002 00:00:00	○ Grab Com	GHS	1	5-340139 1 to 1
Bottle	No. 1	Parameter PM10				è
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH29SO1	SO1	20/01/2002 00:00:00	Grab Com	GHS	1	5-340138 1 to 1
Bottle	No. 1	Parameter PM10				
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH29SO2	SO2	20/01/2002 00:00:00	◯ Grab Com	RVHS	1	5-340140 1 to 1
Bottle	No. 1	Parameter PM10				
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH29SO3	SO3	20/01/2002 00:00:00	○ Grab Com	ADDAVILLE	1	5-340141 1 to 1
Bottle	No. 1	Parameter PM10				

CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2002 0035 CHESHIRE MONITORING Suspended particles

- Chain-of-Custody
- Analysis Request Form(s)*
- ☐ Sample Tags
- Transmittal Report w/signatures of the following:
 - Analyst (s)
 - Data Management Coordinator
- * Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Sylvia Pression 3.5-2002

Data Management Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

MAR 0 5 2002

Date:

Subject: Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Edgar Santiago, Chemist E. &

Region 5 Central Regional Laboratory

To:

ttached are the results for: CHESHIRE MONITORIN

CRL data set number: 20020035

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH29D01, 2002AH29S01, 2002AH29S02,

and 2002AH29S03.

MAR 0 5	, 2002,
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15th C 3 man
Data Management Coordinator and Date Received
Date Transmitted:MAR_0'5/2002
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
Received by and Date

Comments:

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method Detection Limit (MDL)</u> but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS TeNtatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or <i>Q</i> uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag</u> .
U	This flag in used when the analyte was analyzed for but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 01/20/2002 LAB ARRIVAL DATE: 02/21/2002 DUE DATE: 03/14/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020035 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE#	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)	# H	#: #!	
1	2002AH29S01	GUIDING HANDS SCHOOL	0.0265 J			
2	2002AH29D01	GUIDING HANDS SCHOOL	0.0223 J	,	č.	
3	2002AH29S02	RVHS	0.0166	55	72	
4	2002AH29S03	ADDAVILLE	0.0458		4	
DATE O	F ANALYSIS		02/26-27/2002		111111111111111111111111111111111111111	
AN	ALYST		8.8			

eviewed by: FAA	ž.	Date: 3 1 1 200	

Data Set Number:	20020035	Parameter:	Suspended Particles	0.0
Facility Name:	CHESHIRE MONITO	ORING STUDY	g.	
Study Name:	CHESHIRE MONITO	ORING STUDY		
Date of Narrative:	02/27/2002	Analyst:	<u>ES</u>	
		Signature:	E.8	

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on February 21, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280092	2002AH29D01	5-340139
Q6280108	2002AH29S01	5-340138
Q6280109	2002AH29S02	5-340140
Q6280123	2002AH29S03	5-340141

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 02/26/2002 and was completed on 02/27/2002. No field sampler I.D. was provided for filters Q6280109 and Q6280123 (CRL sample I.D number 2002AH29S02 and 2002AH29S02.)

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

A small tear was observed in exposed filter Q6280108 (CRL sample I.D number 2002AH29S01). A small tear was also observed along one side of exposed filter Q6280092 (CRL sample I.D number 2002AH29D01). Use those results with caution. Suspended particle results for those samples could be biased low due to loss of particles or filter materials. A probable cause for those tears are activities related to removal of exposed filters from the individual sampling equipment in the field. Use the data with caution.

Exposed filter Q6280109 and Q6280123 (CRL sample I.D number 2002AH29S02 and 2002AH29S03) had no tear or holes. The results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

Chicago, Illinois 60604 Office of Enforcement CHAIN OF CUSTODY RECORD Activity Code: 12345 PROJ. NO. PROJECT NAME 02AH29 CHESHIRE MONITORING STUDY NO. SAMPLERS: (Print Name and Sign) OF AIR 20020035 mike murphy Mike Murphy Mits Muras COSP GRAB CON-TAINERS TIME STATION LOCATION STA, NO. DATE TAG NUMBERS 00:00 X 1 5-340139 1 to 1 GHS DO1 1/20 X 1 5-340138 1 to 1 00:00 **GHS** SO1 1/20 X 1 5-340140 1 to 1 SO2 1/20 00:00 **RVHS** SO3 1/20 00:00 X **ADDAVILLE** 1 5-340141 1 to 1 GHS# 3012, Psty Aug = 19.65 GHS# 3013, PSTY AV9 = 18,75 RVHS PSTG AUG= 18.85 Addoville 18.2 PST9 Aug = 18.2 Relinquished by: (Signature) Received by: Date / Time (Signature) Ship To: Miko Mungs 1-20-02 1427 Relinquished by: (Signature) (Signature) Date / iTime Received by: ATTN: Received for Laboratory by: Relinquished by: (Signature) Date / Time Date / Time Airbill Number (Signature) UPS#12401199014076 1096 Chain of Custody Seal Numbers

5-140034

Project No.	Project	t Name CH35H	ARAUM DATE:	stud	201014	9
02AH29	AIR	20020035	ARRIVAL DATE	2/21/2002	DUE DATE 3/14	1/2002
Sampler mike murphy			The second secon	344007214D 3 44434570E	4.5533.0 (495.2 (7) (495.2 (1) (49	
Cooler ID	1	Page	5-140034			
Sample ld:	Station -	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH29DO1	DO1	20/01/2002 0	00:00:00	GHS -	1	5-340139 1 to 1
Bottle	No. 1	Parameter PM10	6	9	E	> 18
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH29SO1	SO1	20/01/2002 0	00:00:00	GHS	1	5-340138 1 to 1
Bottle i	No. 1	Parameter PM10	37	8		a
Sample Id:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH29SO2	SO2	20/01/2002 0	0:00:00	RVHS	1	5-340140 1 to 1
Bottle I	No. 1	Parameter PM10				
Sample ld:	Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH29SO3	SO3	20/01/2002 0	0:00:00	ADDAVILLE		5-340141 1 to 1
Bottle I	No. 1	Parameter PM10		Ä		

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 01/20/2002 LAB ARRIVAL DATE: 02/21/2002 DUE DATE: 03/14/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020035 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2002AH29S01	GUIDING HANDS SCHOOL	0.0265 Ј			
2	2002AH29D01	GUIDING HANDS SCHOOL	0.0223 J		9	
3	2002AH29S02	RVHS	0.0166	110000		
4	2002AH29S03	ADDAVILLE	0.0458			E-
	FANALYSIS ALYST		02/26-27/2002 E.&		5.000	-

Reviewed by: 5×1	Date: <u>3</u>	/ 1	1200	2
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CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Page_of	

	HMENT II		
CKL Analytical and Inorg Batch Number: 20020035 Facil	anics Data Review Checklist ity: <u>CHESHIRE</u> MON	VITORING STUD	Y
	SOP: A16047	1000 and 100	
Package Overview	70 a	YES -	NO
Raw Data Package Complete?			the
Results Reported Correctly?	-	/	
Special Requests Done?		NA	(L
Calculations Checked?		V	
Calibration Not Exceeded?		N/A	
Manual Peak Integration performed? Circle one IC or	GC and Check	NA	
Field QC Checked?		MA	
Qualit	y Control:		54
Holding Times Met?	7.	NA	
Preservation Checked?	a 4 "	N/A	
Proper Digestion Verified?		NA	17
Initial Instrument Performance Checks Verified?			15
Calibration Verification Checked?	A TOTAL SECTION OF THE SECTION OF TH	N/A	
Sample-Specific QC (Internal Standards or Analytical	Spikes) Okay?	N/A	
Matrix QC Checked?		NA	
Digestion Blanks Checked?	1	N/A	0473300 5774 - 79-
Spiked Blank Checked?		N/A	348
LCS (if applicable) Checked?	*	N/A	
QCS (if applicable) Checked?		N/A	
Fina	I Check		
Technical Review Done?			
Narrative Complete?			

Analyst:	E.8	Peer Reviewer: FAA	
Date:	3/1/02	Date: 3/1/2002	
	24	Comments Attached? (Y/N) N	2119700000000000000000000000000000000000

Data Set Number:	20020035	Parameter:	Suspended Particles	
Facility Name:	<u>CHESHIRE MONIT</u>	ORING STUDY		
Study Name:	CHESHIRE MONIT	ORING STUDY		- ç
Date of Narrative:	02/27/2002	Analyst:	<u>ES</u>	51
		Signature:	: <u>E.</u> &	

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on February 21, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

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Q6280108	2002AH29S01	5-340138
Q6280109	2002AH29S02	5-340140
Q6280123	2002AH29S03	5-340141

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 02/26/2002 and was completed on 02/27/2002. No field sampler I.D. was provided for filters Q6280109 and Q6280123 (CRL sample I.D number 2002AH29S02 and 2002AH29S02.)

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

A small tear was observed in exposed filter Q6280108 (CRL sample I.D number 2002AH29S01). A small tear was also observed along one side of exposed filter Q6280092 (CRL sample I.D number 2002AH29D01). Use those results with caution. Suspended particle results for those samples could be biased low due to loss of particles or filter materials. A probable cause for those tears are activities related to removal of exposed filters from the individual sampling equipment in the field. Use the data with caution.

Exposed filter Q6280109 and Q6280123 (CRL sample I.D number 2002AH29S02 and 2002AH29S03) had no tear or holes. The results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers:

20020035-20020040

Date of Analysis 02/26-27/2002

Analyst:

ES

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences	
Actual (g)	Balanced (g)	(g)	
		Limit +/-0.0005 g	
1.0000	1.0001	-0.0001	
2.0000	2.0001	-0.0001	
5.0000	4.0000	0.0002	

QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Analysis	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Q6280087	2002AH30S02	02/27/02	Analyst 1	4.3952
Q6280087	2002AH30S02	02/27/02	Analyst 2	4.3954
Differences (Limit +/-	5 mg)	*********		-0.0002
Q6280004	2002AH30S03	02/27/02	Analyst 1	4.3804
Q6280004	2002AH30S03	02/27/02	Analyst 2	4.3807
Differences (Limit +/-	5 mg)			-0.0003

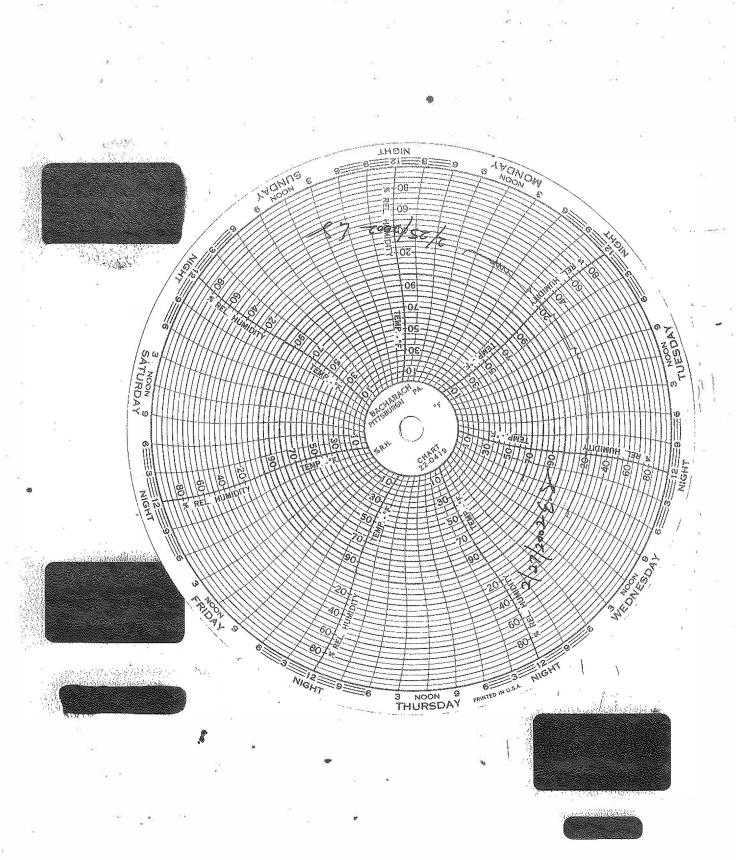
CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
											T. 1
Data set N	umber 20020035						l Tropics				,
Q6280108	2002AH29S01	01/20/02	Guiding Hands School 3	013	19.65		0.00	4.3688	4.3953	0.0265	ERR
Q6280092	2002AH29D01	01/20/02	Guiding Hands School 3	012	18.75		0.00	4.3409	4.3632	0.0223	ERR
Q6280109	2002AH29S02	01/20/02	RVHS		18.85		0.00	4.3697	4.3863	0.0166	ERR
Q6280123	2002AH29S03	01/20/02	Addaville		18.20		0.00	4.3819	4.4277	0.0458	ERR

	14. 16. 1 \$45.00\$ \$45.00\$ \$1.00\$ \$1.00\$ \$1.00\$ \$1.00\$ \$1.00\$ \$1.00\$ \$1.00\$ \$1.00\$ \$1.00\$ \$1.00\$	ningstages the numericapson according to a section are stated.	ganga wa 12 in 1884 kwa 15 August a 16 12 2000 Marinina Marinina Marinina a 1884 kwa 1884 kwa 1884 kwa 1884 kw	Nigo with part from Johannes a communicate de particular d	and the state of the second section of the section of the second section of the se	and the state of t
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06280009		na (1817 1986). Olah kanpun Saha Marinta Brasila	A SHIELD WAS A PROMETURE FOR FROM			0628
06280008	4.3420	emples and production of the	4.3370	L	1	0629
96280007	4-3662	COMMUNICATION STATES AND AND STREET	4.3701			0625
Q6280006	4.3721	er in the same of	4.3692			Q62'
Q6280005		ntal at a pathon as a set in all that may be all the about the control of	4.3332	1		Q62'
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16280123			4.4277	4.4281	y nor our commencement management of the decimal way	(9027
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FILTER	TARE	DUP :	EXPOSED	A SECTION ASSESSMENT OF THE PROPERTY OF THE PR	COMMENT?
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Q6280107	4.3483	a process of the second second second	4.3621	and the second s	
06280105	4.3499		4.3617		
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Q6280102	4.3347		4.3478	and a planting and a series of the series of	
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STAPSED TIME JULY MINUTES AVG. RECORDER RESP. 19 65 SAROAD SIRCHERON TEMP TOTAL FLOW OPERATOR CITIZA SAMPLE WI MITIAL WIT

US EPA Region 5 Field Sample

Parameters PM10

2002000

Preservative None Sample ID 02AH29SO1

S M MO B O

Sampler Miche Murchy

Date

1-20-02

US EPA Region 5 Field Sample

5-34013 p-1

Parameters PM10

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Preservative None S M MD B D

Sample ID 02AH29D01 X

Sample ID 02AH29D01 X

Date |-20-02

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US EPA Region 5 Field Sample

5-340140-1

Parameters PM10

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Preservative None S M MD B D

Sample ID 02AH29502 X

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1-20-02

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STD ACTUAL		TAXED TIME 141/C MINUTES	AVG. RECORDER RESP. 18.2		SAROAD	
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US EPA Region 5 Field Sample

| S-340141-1
| Parameters PM10
| Lange |

Preservative None Sample ID 02AH29SO3

Sampler

Date

 $A_{ij}^{-1} = A_{ij}^{-1} + A_{ij}^{-1} +$